AMENDMENTS TO THE CLAIMS

1. (currently amended) A method of speculatively issuing memory requests while maintaining a specified packet order comprising:

receiving a first packet and a second packet for forwarding, wherein said first packet is received prior to said second packet;

maintaining said first packet and said second packet in a transfer order queue;

sending a first memory request corresponding to said first packet; sending a second memory request corresponding to said second packet prior to receiving a first memory reply corresponding to said first memory request and prior to said second packet moving to a head of said transfer order queue; and

forwarding said first packet prior to forwarding said second packet.

2-3. (cancelled)

- 4. (original) The method as described in Claim 1 wherein said first memory request is to request resource to forward said first packet.
- 5. (original) The method as described in Claim 1 further comprising receiving a second memory reply prior to forwarding said first packet.
- 6. (original) The method as described in Claim 1 further comprising receiving said first memory reply prior to forwarding said first packet.
- 7. (original) The method as described in Claim 1 wherein said first packet comprises an internet protocol packet.
 - (currently amended) A network method comprising:
 receiving a first packet and a second packet for forwarding;
 maintaining said first packet and said second packet in a transfer order

queue;

Serial No.: 10/091,775 Examiner: Wong, Warner

- 2 - Art Unit: 2668

sending a first memory request corresponding to said first packet; and sending a second memory request corresponding to said second packet prior to forwarding said first packet and prior to said second packet moving to a head of said transfer order queue.

9-10. (cancelled)

- 11. (original) The method as described in Claim 8 wherein said first memory request is to request resource to forward said first packet.
- 12. (original) The method as described in Claim 8 further comprising receiving a second memory reply prior to forwarding said first packet.
- 13. (original) The method as described in Claim 8 wherein said first memory reply is received prior to forwarding said first packet.
- 14. (original) The method as described in Claim 8 wherein said first packet comprises an internet protocol packet.
 - 15. (currently amended) A networking device comprising:
 - a first packet processor comprising:

an input interface having a port to accept incoming packets;

an input memory coupled to said input interface for temporarily storing said packets in a queue arranged by a receiving order;

a second packet processor comprising:

an output interface having a port to send said packets out of said networking device;

an output memory coupled to said output interface for temporarily storing said packets;

Serial No.: 10/091,775 Examiner: Wong, Warner Art Unit: 2668 a switching fabric coupled to said first packet processor and said second packet processor for conveying information between said first packet processor and said second packet processor; and

said first packet processor also for sending a memory request corresponding to a <u>first</u> packet which is not at a head of said queue to said second packet processor <u>prior to forwarding a packet which is at said head of said queue</u>.

- 16. (currently amended) The networking device as described in Claim 15 wherein said first packet processor is also for receiving a memory reply message from said second packet processor corresponding to a <u>said</u> memory request for a <u>said first</u> packet.
- 17. (currently amended) The networking device as described in Claim 16 wherein said first packet processor is also for sending said a second packet to said second packet processor, wherein if said second packet is at the head of said queue.
- 18. (currently amended) The networking device as described in Claim 17 wherein said second packet processor is also for receiving said <u>first</u> packet <u>and said</u> <u>second packet</u> at said second packet processor.
- 19. (currently amended) The networking device as described in Claim 15 wherein said second packet processor is also for sending said <u>first</u> packet out of said networking device.
- 20. (original) The networking device as described in Claim 15 further comprising a plurality of packet processors in addition to said first and said second packet processors coupled to said switching fabric.
- 21. (currently amended) The networking device as described in Claim 15 wherein said memory request comprises a first portion to indicate that said <u>first</u> packet is not at a head of said queue.

Serial No.: 10/091,775 Examiner: Wong, Warner

- 22. (currently amended) The networking device as described in Claim 15 wherein said first packet is an internet protocol packet.
 - 23. (currently amended) A networking device comprising:

a means for sending a memory request corresponding to a second packet prior to sending a first packet, wherein said first packet is received prior to receiving said second packet, said means for sending a memory request comprising:

means for maintaining the transfer order of said first and said second packets, wherein said means for maintaining the transfer order of said first and said second packets comprises a transfer order queue; and

means for sending said memory request for said second packet prior to said second packet reaching a head of said transfer order queue.

24-26. (cancelled)

- (original) The networking device as described in Claim 23 wherein 27. said means for sending a memory request further comprises means to request resource to transfer said packet.
- 28. (original) The networking device as described in Claim 23 wherein said means for sending a memory request further comprises means for accepting a memory reply prior to forwarding said packet.
- 29. (original) The networking device as described in Claim 28 wherein said means for accepting a memory reply further comprises means to assign network resource to transfer said packet.

Serial No.: 10/091,775 Examiner: Wong, Warner Art Unit: 2668

30. (original) The networking device as described in Claim 23 wherein said packet is an internet protocol packet.

Examiner: Wong, Warner Art Unit: 2668 Serial No.: 10/091,775 - 6 -